New patent claim 1

1. A rotation rate sensor having a vibration gyro (1), with circuits (2, 3, 4, 5) which are used for operation of the vibration gyro (1) and for emission of a rotation rate signal and which access variable data, having a non-volatile memory (8) which can be written to and in which the data is stored, and having means (5) for reading the data from the non-volatile memory (8) after switching on the rotation rate sensor, wherein the data is subdivided on the basis of its use into groups, and measures for signal protection are taken for one group in each case, characterized in that the memory (8) is arranged such that the data for in each case one group can be written and read independently of the data in the other groups, and in that a checksum is formed over the data for in each case one group, is stored in the non-volatile memory (8) and is used for checking during reading.

New patent claims

1.

2. The rotation rate sensor as claimed in claim 1, characterized in that the non-volatile memory is an EEPROM (8).

3. The rotation rate sensor as claimed in claim 2, characterized in that the EEPROM (8) is a flash EEPROM.

4. The rotation rate sensor as claimed in one of the preceding claims, characterized in that one of the groups contains adjustment data.

5. The rotation rate sensor as claimed in one of the preceding claims, characterized in that one of the groups contains parameter sets for filters.

6. The rotation rate sensor as claimed in one of the preceding claims, characterized in that one of the groups contains value limits for self-testing of the rotation rate sensor.

7. The rotation rate sensor as claimed in one of the preceding claims, characterized in that a software emulation program is also stored in the non-volatile memory (8).